

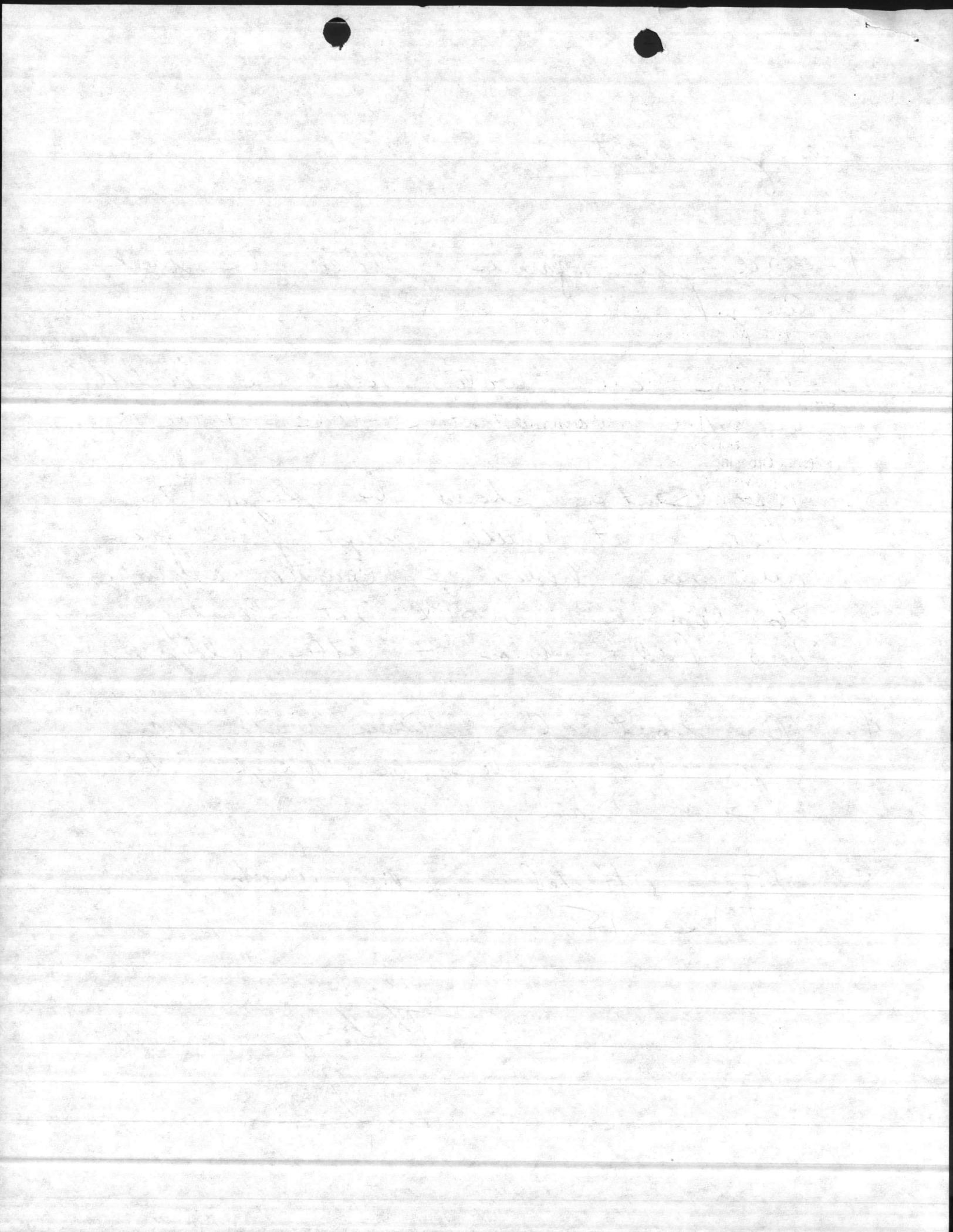
WATER & WASTEWATER  
UTILITY'S BRANCH  
MACK PRIZZELL

## Carry Brant

- 1 - all fire hydrants should be break away.
- 2 - Insure all water lines are installed Per N.C. Administrative Code - Title 15
- 3 - Lift Station should be sized to insure it will accept flows from all new bldg. I counted approx. 26 Commods in PX not counting New Credit Union + other bldgs.
- 4 - On sheet C-3 Does water Main go Over, under, or through 54" Storm Drain.
- 5 - Note attached Section .0906  
Title 15

Thanks,

Bel



### **.0905 TESTING NEW WATER MAINS**

New water mains shall be tested for leakage and any necessary repairs and re-testing shall be accomplished as specified in AWWA standards.

*History Note:* Statutory Authority G.S. 130A-315; 130A-317;  
P.L. 93-523;  
Eff. January 1, 1977;  
Readopted Eff. December 5, 1977.

### **.0906 RELATION OF WATER MAINS TO SEWERS**

(a) **Lateral Separation of Sewers and Water Mains.** Water mains shall be laid at least 10 feet laterally from existing or proposed sewers, unless local conditions or barriers prevent a 10-foot lateral separation—in which case:

- (1) The water main is laid in a separate trench, with the elevation of the bottom of the water main at least 18 inches above the top of the sewer; or
- (2) The water main is laid in the same trench as the sewer with the water main located at one side on a bench of undisturbed earth, and with the elevation of the bottom of the water main at least 18 inches above the top of the sewer.

(b) **Crossing a Water Main Over a Sewer.** Whenever it is necessary for a water main to cross over a sewer, the water main shall be laid at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer, unless local conditions or barriers prevent an 18 inch vertical separation—in which case both the water main and sewer shall be constructed of ferrous materials and with joints that are equivalent to water main standards for a distance of 10 feet on each side of the point of crossing.

(c) **Crossing a Water Main Under a Sewer.** Whenever it is necessary for a water main to cross under a sewer, both the water main and the sewer shall be constructed of ferrous materials and with joints equivalent to water main standards for a distance of 10 feet on each side of the point of crossing. A section of water main pipe shall be centered at the point of crossing.

*History Note:* Statutory Authority G.S. 130A-315; 130A-317;  
P.L. 93-523;  
Eff. January 1, 1977;  
Readopted Eff. December 5, 1977.

### **.0907 VALVES**

(a) Valves should be installed on all branches from feeder mains and between mains and hydrants according to the following schedule:

- (1) three valves at x (crosses),
- (2) two valves at T's (tees), and
- (3) one valve on single hydrant branch.

(b) All valves installed in water distribution systems should meet the appropriate AWWA Standards C 500-71 (adopted in 1971) C 504-74 (adopted in 1974) and C 507-73 (adopted in 1973) of the American Water Works Association, Inc., or approved equal standards. Copies of AWWA standards are available from the American Water Works Association, 6666 W. Quincy Avenue, Denver, Colorado 80235, at a cost of one hundred forty dollars (\$140.00) per complete set for non-members or seventy dollars (\$70.00) for members. Copies are available for public inspection at the principal address of the Public Water Supply Section, Division of Environmental Health. Further, all valves must be installed in such a manner as to be readily accessible, preferably, the use of an appropriate valve box and cover.

*History Note:* Statutory Authority G.S. 130A-315, 130A-317;  
P.L. 93-523;  
Eff. January 1, 1977;  
Readopted Eff. December 5, 1977;  
Amended Eff. March 31, 1980.

